

# TOYS 'R' US' COMPUTER COMPARISON CHART

		COMMODORE 64	COMMODORE PLUS/4	COMMODORE C-16
MEMORY (ROM)	STANDARD:	20,000 (20K) bytes.	32,000 (32K) bytes.	32,000 (32K) bytes.
MEMORY (RAM)	STANDARD:	38,000 (38K) bytes.	84,000 (84K) bytes.	16,000 (16K) bytes.
	OPTIONAL:	Non-expandable.	Non-expandable.	Non-expandable.
INPUT	STANDARD:	88 key typewriter style keyboard. Includes 4 programmable function keys. ROM cartridge port.	87 key typewriter style keyboard. Includes 4 cursor control keys, 4 programmed function keys and "HELP" key. ROM cartridge port.	88 key typewriter style keyboard. Includes 4 cursor control keys and 4 programmed function keys. ROM cartridge port.
	OPTIONAL:	Joystick and paddle port. For cassette input, requires the C-1530 Datassette Recorder. For Diskette input, requires the C-1541 disk drive (up to 5 drives at 170K bytes each).	Two joystick ports. For cassette input, requires the C-1531 Datassette Recorder (C-1530 is not compatible). For Diskette input, requires either the C-1541 or C-1542 disk drive or other vendor input devices which are compatible.	Two joystick ports. For cassette input, requires the C-1531 Datassette Recorder (C-1530 is not compatible). For Diskette input, requires either the C-1541 or C-1542 disk drive or other vendor input devices which are compatible.
OUTPUT	STANDARD:	Uses home TV or video monitor.	Uses home TV or video monitor.	Uses home TV or video monitor.
	OPTIONAL:	Cassette and disk capability (see above) works with all Commodore printers. Centronics parallel and RS-232 interfaces available for expanded output capabilities.	Cassette and disk capability (see above) MCS-801 Color Dot Matrix Printer, MPS-802 Dot Matrix, DPS-1101 Daisy Wheel Printer, C-1528 Dot Matrix Printer, C-1520 Plotter/Printer and other printer and output devices which are compatible.	Cassette and disk capability (see above) MCS-801 Color Dot Matrix Printer, MPS-802 Dot Matrix, DPS-1101 Daisy Wheel Printer, C-1520 Plotter/Printer. Plus other printer and output devices which are compatible.
LANGUAGE	STANDARD:	Commodore BASIC built-in.	Extended BASIC built-in.	Built-in BASIC.
	OPTIONAL:	Assembly language # C84-101. Logo Commodore #C84-105 PLOT Commodore #C84-106 Forth Hex #C-501	Also includes assembly language monitor built-in. N/A (at this time).	Also includes built-in assembly language monitor. N/A (at this time).
SOUND	STANDARD:	Built-in music synthesizer with 3 voices and 8 octaves.	2 tone generators with 8 volume levels.	2 tone generators or 1 tone and 1 note generator with 8 volume levels.
SCREEN SIZE	STANDARD:	40 x 25 characters.	40 x 25 characters.	40 x 25 characters.
COMMUNICATIONS CAPABILITY	OPTIONAL:	VIC-1600 Direct Connect Modem includes necessary software or Westridge Auto Modem #8420 includes software.	Includes modem port. Modem not available at this time (C-64 modem will not interface).	Includes modem port. Modem not available at this time (C-64 modem will not interface).
SOFTWARE	OPTIONAL:	Large array of entertainment, educational and management programs available. With PET emulation most software available for Commodore PET computer will run on C-64.	Includes 4 built-in software packages, word processor, spread sheet, data base and graphics. New titles to be introduced as available. Compatible with all C-16 software. (C-64 or VIC-20 software is not compatible).	New titles to be introduced as available (C-64 or VIC-20 and some Plus/4 software is not compatible).
MISCELLANEOUS	STANDARD:	8 bit 6510A microprocessor upper and lower case letters and all PET graphics.	8 bit 7501 microprocessor. Upper and lower case letters and all PET graphics. 121 color graphics. Screen window capability.	8 bit 7501/8501 microprocessor upper and lower case letters and all PET graphics. 128 color graphics. Screen window capability.
	OPTIONAL:	16 color graphics with 8 movable sprites for better graphics.		

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COMPARISON CHART		COMMODORE VIC-20	ATARI 800XL	COLECO ADAM
<b>MEMORY (ROM)</b>	<b>STANDARD:</b>	20,000 (20K) bytes.	24,000 (24k) bytes.	N/A
<b>MEMORY (RAM)</b>	<b>STANDARD:</b>	5,000 (5K) bytes.	64,000 (64k) bytes.	80,000 (80k) bytes.
	<b>OPTIONAL:</b>	Memory expansion cartridges for 3K, 8K, and 16K (for total of 32K maximum).	Non-expandable.	Expandable to 144k bytes.
<b>INPUT</b>	<b>STANDARD:</b>	66 key typewriter style keyboard includes 4 programmable function keys. ROM cartridge port.	62 key typewriter style keyboard including 4 special function keys and "help" key. Joysticks, paddle and keyboard controllers (same as those used with Atari Video System). Atari 410 or 1010 Program Recorder needed to load cassette based programs. Atari 810 or 1060 Disc Drive needed for Disc Programs.	75 key typewriter style keyboard. Additional 14 keys with hand controllers includes fast transfer™ Cassette Drive for storage of programs and data. 500k capacity Super action controllers. Roller controllers. Steering controllers. Electronic sketch pad. Conversion Modules to play Atari 2600 game cartridges. Second fast transfer™ Cassette Drive available. Disc Drive available.
	<b>OPTIONAL:</b>	Joysticks and paddle port for cassette input, require the C-1530 Datacassette Recorder. For Diskette input, requires the C-1541 disk drive (up to 5 drives at 170K bytes each).		
<b>OUTPUT</b>	<b>STANDARD:</b>	Uses home TV or video monitor.	Uses home T.V. or Video Monitor	Uses T.V. or Video Monitor.
	<b>OPTIONAL:</b>	Cassette or disk capability (see above) works with all Commodore printers (except MPS801).	Cassette and Disk capability (see above). Atari 820 Printer. Atari 825 Printer. Atari 1020 Printer/Plotter, Atari 1025 Printer, or Atari 1027 Letter quality Printer.	Letter quality printer with built-in Word Processor. Fast transfer™ Cassette Drive with 500k capacity. Disc Drive available.
<b>LANGUAGE</b>	<b>STANDARD:</b>	VIC BASIC is built-in.	Atari BASIC Built-in	Built in SMART BASIC, compatible with Applesoft™ BASIC
	<b>OPTIONAL:</b>	VICMON #VIC-1213 Commodore assembly language.	Atari Microsoft BASIC Atari Microsoft BASIC II Assembly Language Atari Pilot Atari Logo Pascal and Forth available on request.	Optional CP/M compatibility. SMART LOGO.
<b>SOUND</b>	<b>STANDARD:</b>	4 tone generators with 5 octaves including, "white noise". Programmable volume and tone control.	4 voices 3½ octaves.	3 voices.
<b>SCREEN SIZE</b>	<b>STANDARD:</b>	23 x 22 characters.	40 x 24 characters.	36 x 24 characters.
<b>COMMUNICATIONS CAPABILITY</b>	<b>OPTIONAL:</b>	VIC-1600 direct connect phone modem includes necessary software.	Atari 1030 Direct Connect Modem with Modem Link software or Atari 835 Direct Connect Modem with Telelink software.	Phone Modem and RS-232 Interface are available.
<b>SOFTWARE</b>	<b>OPTIONAL:</b>	Works with VIC-20 software only. Available in ROM cartridge, cassette and diskettes.	Works with all Atari home computer software. Does not accept cartridges used with Atari Video Game System.	Will run software written in Applesoft™ BASIC. Will run all Colecovision game cartridges. With addition of Conversion Module, will run Atari 2600 game cartridges. Compatible with CP/M Software (with optional peripherals).
<b>MISCELLANEOUS</b>		8 bit 6502A microprocessor, upper and lower case letter and all PET characters. 8 color graphics.	6502C 8-Bit Microprocessor. Selected International Character. 256 Color Graphics. Includes Serial Input/Output Connector.	

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